National Environmental Education Foundation



www.neefusa.org



Statement of Purpose

We provide knowledge to trusted professionals who, with their credibility, amplify messages to national audiences to solve everyday environmental problems. Together, we generate lasting positive change.



Reaching the Public

Management, families, local communities

Primary Audience Secondary Audiences Trusted Professionals EE Content Students Information School Administrators; EE/education **Training Teachers** leaders & organizations; parents; local communities **Viewers** Station manager/news directors; meteorologist professional organizations; **TV Meteorologists** meteorologist community; academic institutions **Volunteers** Public land organizations; Federal, state & **Public Land Managers** local government agencies; youth natural resource organization **Patients** Families, doctors, nurses, academic **Health Care Providers** institutions/faculty; public/environmental health communities: underserved communities **Employees**

Business Managers













Audience Reach











More than 220,000 individuals visited the suite of Classroom Earth websites in 2011; many of these visitors are teachers who use Classroom Earth materials to educate dozens of students.

Since Earth Gauge launched in 2005, the program has grown to 215 weathercasters in 2011, with a presence in 117 cities and 46 of the top 50 media markets, covering 230 million viewers.

In September 2011, over 170,000 volunteers participated at nearly 2,100 public land sites spread across the 50 states, Washington, DC and the US territories, providing an estimated \$18 million in contributed services.

The 40 Nature Champions trained in 2010 are each charged with training an additional 40 pediatric health care providers, who will in turn reach tens of thousands of families and children within two years.

20 companies representing four million employees participated in the Business Sustainability Education Roundtable to share best practices on employee engagement in environment and sustainability education.

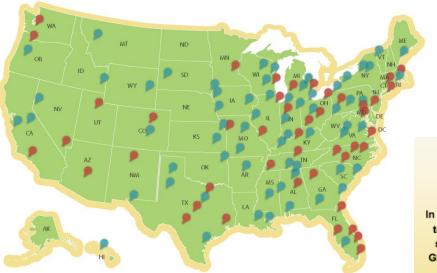


Advance the environmental and climate knowledge of broadcast meteorologists in order to increase the public's knowledge so they can make environmentally informed decisions.











Climate Fact

In North Cascades National Park, the total area covered by glaciers has shrunk by 40 percent since 1850.

Glacial retreat has been particularly noticeable since about 1980.

A National Environmental Education Foundation Program

"The Climate Facts have been a great addition to my science journal online, and I get frequent feedback from viewers about the science I mention."

Meteorologist Dan Satterfield at WHNT-TV in Huntsville, Alabama.





Weather and Health

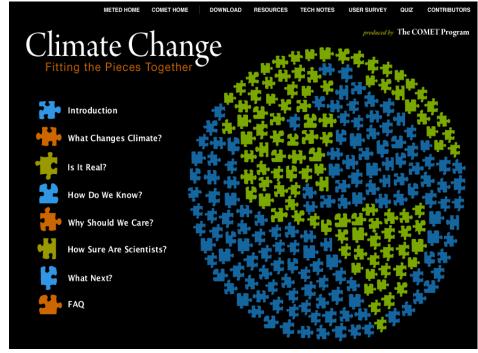


Online Courses











Increase the capacity of public lands stewards to engage local communities to help care for our public lands.



The nation's largest volunteer effort to improve America's public lands

















Every Day Grant Winners Announced Twenty-two friends groups received Every Day Grants of up to \$5,000. Learn more about these great organizations.

Every Day Capacity Building Grants



The Every Day Grants provide "Friends Groups" with grant funds of up to \$5,000 to help the Friends Group build their capacity to serve public lands.

Friends groups are invaluable to the public lands they serve. While dedicated and passionate, they are often underfunded and understaffed. The <u>National Environmental Education Foundation</u> (<u>NEEF</u>) wants to unleash their potential and help strengthen these organizations to enable them to do more to connect their communities to the land.

The latest Every Day Grant cycle closed on January 31, 2011. <u>Learn more about the application</u> and eligibility requirements.

2011 Grant Winners

Branch Brook Park Alliance

Newark, N.J.

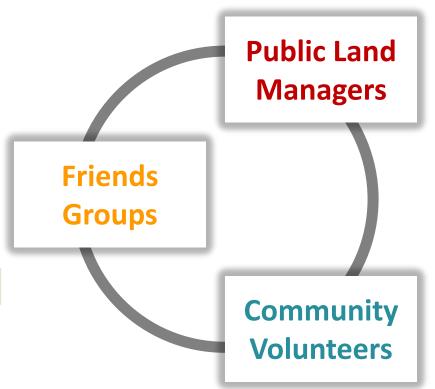
Carson Valley Trails Association

Minden, Nev.

Discover Your Northwest

Seattle, Wash.

Public Lands Every Day







Advance environmental knowledge among health professionals to improve the public's health with a special emphasis on children and underserved populations.



Health & Environment

Prescribing Nature





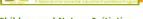








Children and Nature Initiative Pilot Sites



Health & Environment

Children and Nature Initiative

Our children are suffering from a variety of chronic health conditions such as obesity and asthma. Research indicates that unstructured outdoor activities may improve children's health by increasing physical activity, reducing stress, and serving as a support mechanism for attention disorders. The National Environmental Education Foundation's (NEEF) Children and



isorders. The National
nvironmental Education
bundation's (NEEF) Children and
ature Initiative is taking action
health by addressing
t issues:

serious health conditions like ad diabetes

d diabetes ting children to nature

ating pediatric health care out prescribing outdoor activities of connecting health care h local nature sites so that they ilies to safe and easily

Nature Champions

- NEEF is building capacity among pediatric health care providers by creating Nature Champions who train other health care providers about prescribing nature.
- The health care providers refer families to parks or nature centers in their communities where NEEF's partners provide active nature programming.
- · NEEF's nature partners include:







Advance the ability of K-12 teachers to work across disciplines, equipping students to contribute to environmental solutions.



Classroom Earth is...

National Environmental Education Week

Planet Connect



Planet Connect project grantee Lisa Junta of Springfield, VA displays her school's new reusable lunch trays.

Students participating in a Florida Oceanographic Society program investigate estuary wildlife during EE Week.

Be Water Wise

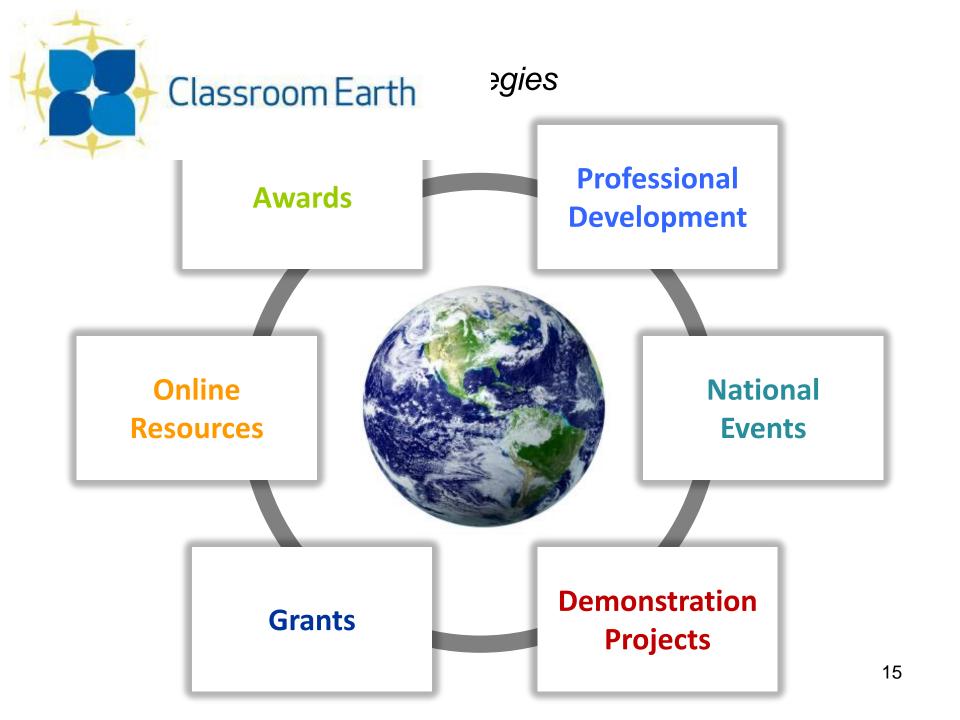


A Be Water Wise student shows her flow meter bag measurement.

Richard C. Bartlett Award



Outstanding environmental educator John Schmied of Bothell, WA received the 2011 Bartlett Award.





Classroom Earth











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Quant

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Success Stories

about the environment.

environment. Join Now. **FUNDING OPPORTUNITIES**

Connect Grants for Culturally Diverse

President's Environmental Youth Awards

TEACHING ABOUT THE ENVIRONMENT Learn how to teach high school students

JOIN THE CLASSROOM EARTH COMMUNITY

By becoming a member of Classroom Earth you become part of a nationwide community of high school educators teaching about the

Welcome to Classroom Earth!



Classroom Earth is an online resource designed to help high school teachers include environmental content in their daily lesson plans. Useful resources on the site include:

read more

HOWSE RESOURCES BY SUBJECT

- Foreign Languages
- Language Arts
- Mathematics
- Science
- Social Studies
- . The Arts

coast

ST. PETERSBURG, Fla. Thousands of jellyfish washed up on Florida's east coast over the Memorial holiday weekend, stinging swimmers and thwarting beachgoers. Learn more



Archive

SUCCESS STORIES John Schmied. 2011 Bartlett Award Winner

"I would like to thank the National Environmental Education Foundation for naming me as the 2011 Richard C. Bartlett Environmental Education Award winner.

Hundreds feel sting of jellyfish on Florida's east

Schoolyard Habitat Program December 31, 2011 View All Grants

GREEN TV

Communities

August 1, 2011

December 31, 2011



FOLLOW US







Wildlife Conservation Resources



Check out Classroom Earth's wildlife conservation resources, including lesson plans, curricula, professional development opportunities, news, fact sheets, funding opportunities, videos and more!

read more ...









Classroom Earth Resources

Resource Library

Analyzing Tree Rings

in Subject: Environmental Science, Biology, Algebra I Key Term: Correlated to Standards, Forests, Botany Level: General

Resource Type: Activities/Lesson Plans Topic: Biodiversity, Water, Climate



In this lesson plan students become dendrochronologists - tree ring scientists. The lesson introduces Methuselah, an ancient bristlecone pine that has lived more than 4,600 years.

Access the Lesson Plan

Add new comment Read more

Mountain of Ice and its History

in Subject: Environmental Science, Earth Science, Chemistry, Statistics, Algebra I Key Term: Correlated to Standards, Oceanography

Level: General

Resource Type: Activities/Lesson Plans

Topic: Water, Climate, Geography



In this lesson, students analyze the chemical concentrations in ice core field data from the U.S.

View the Lesson Plan

Add new comment Read more

Continuously Changing Plant Growth

in Subject: Algebra I

Key Term: Correlated to Standards, Botany

Level: General

Resource Type: Activities/Lesson Plans

Topic: Agriculture

Plant growth rates are influenced by many factors including rainfall, climate, soil nutrients, and others. In this activity, students will develop a mathematical model for a growing plant.

This activity is correlated to National Mathematics content standards.

View the Lesson Plan

Add new comment

- Classroomearth.org
- Highly searchable database of resources;
- Search terms include:
 - Type of resource (ex: video, curricula, or lesson plan)
 - Topic (ex: Energy)
 - Subject (ex: Math)
 - Course (ex: Algebra)
 - Level (ex: AP)



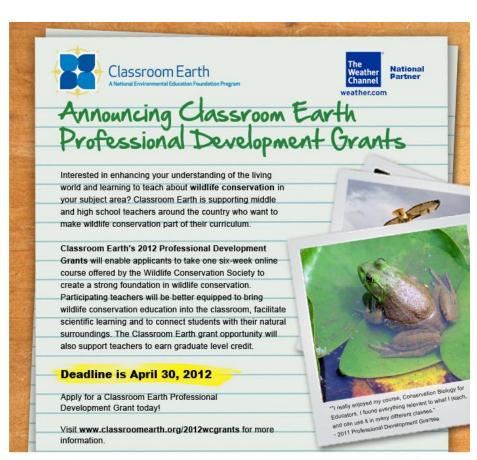
Teacher Wildlife Conservation Professional Development Grants

Synopsis:

- Grant courses available for middle and high school teachers
- Courses provided by the Wildlife Conservation Society
- Graduate level credits available via Adams State College
- Courses available: Conservation Biology for Educators, Habitat Ecology for Educators
- Access to Classroom Earth's online wildlife conservation resources

"I really enjoyed my course, *Conservation Biology for Educators*. I found everything relevant to what I teach, and can use it in many different classes."

Currently accepting applications until April 30, 2012: http://ClassroomEarth.org/2012wcgrants





in partnership with



Planet Connect

RECYCLE
REUSE
AND
CONTRIBUTE !!









Be water wise

Engages public, private and nonprofit sectors to raise awareness of local water issues and improve water conservation in school buildings and grounds.







Be Water Wise students in Miami and Atlanta conduct school water audits (far left), and later, present their water conservation plans to city officials, including Miami Mayor Manny Diaz and Superintendent Alberto Carvalho (upper left), as well as Atlanta City Council Chair Ceasar Mitchell (above).





Announcing the 2012 Richard C. Bartlett Environmental Education Award

Do you know a teacher who stands out among the rest? Someone who takes their passion for the environment and brings it into the classroom, inspiring students to learn and engage in environmental issues? Consider nominating an outstanding teacher for the 2012 Richard C. Bartlett Environmental Education Award.

The 2012 Richard C. Bartlett Environmental Education Award will go to an outstanding high school teacher (grades 9-12) who successfully integrates environmental education into the curriculum and engages students in interdisciplinary solutions to environmental challenges. The award is given to an educator who can serve as an inspiration and model for others.

The winner of the Richard C. Bartlett Environmental Education Award will receive \$5,000 to support their work in environmental education. The award and merit winners will be announced in August 2012.

The application deadline for the Richard C. Bartlett Environmental Education Award is June 8, 2012. Nominate yourself or a teacher you know today!

To learn more, visit: http://neefusa.org/bartlettaward.htm

The Richard C. Bartlett Environmental Education Award is made possible through the generous support of Baxter Healthcare Corporation.







Hands on the Land (HOL) is supported by a collaboration of:

- Partners in Resource Education (PRE), a collaboration of seven Federal agencies
- The National Environmental Education Foundation (NEEF)
- The Keystone Center (TKC) and Keystone Science School (KSS)

























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TERRA COGNITA SPRING 2012







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MEMBERSHIP

- * Individual & Newsletter Sign-up
- . How to Join Hands on the Land
- * Site Membership Application

Hi davez,

LOG OUT



Welcome to Terra Cognita, a student-written, environmentally-focused news report on events within...

Welcome to Hands on the Land



Let's give our newest member site a warm welcome: Fort Ord of Hollister, CA.

Students Loren Henry and Jessica Betts investigate a piece of Marine Debris on

West Elwha Beach.

The mission at Fort Ord is to work with partners to protect rare plants and animals on this former

Army...Read more

C----- 2012 Namelattan

Highlights

Cognila

Hot Topics

What's important to federal land managers? Classroom materials are now available on wildland fire, invasives, forests, watersheds, polinators, climate, oceans and habitat...Read more

Children and Nature

Take a look at what federal agencies and their









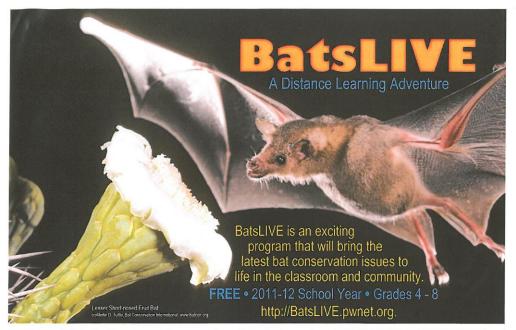












Bats are vital to healthy of ecosystems and human economies worldwide. As primary predators of night-flying insects, bats consume enormous quantities of agricultural and forest pests reducing the need for chemical pesticides. Some bats are critical pollinators and seed dispersers for plants.

Yet these wonderfully diverse and beneficial creatures are among the least studied and most misunderstood of animals. Bats are threatened worldwide, and their colonies and habitats are destroyed – both intentionally and inadvertently – because of myths, misinformation, and lack of scientific knowledge and understanding.

Bat populations are declining almost everywhere, especially due to the devastating White-nose Syndrome disease. Losing bats has far-reaching consequences for natural ecosystems and human economies. Knowledge is the key to their survival and protection.

Join us for BatsLIVE:

- · FREE to all schools.
- Log on for a LIVE WEBCAST on May 17, 2012.
- · Join us for in-depth WEB SEMINARS about bats.
- · Participate in CITIZEN SCIENCE activities.
- · Find LESSON PLANS about bats for the classroom.
- Connect with bat conservation ORGANIZATIONS worldwide.





Supporting Partners:

USDA Forest Service • Partners in Resource Education • US Fish and Wildlife Service Bat Conservation International • National Environmental Education Foundation Organization for Bat Conservation • National Wildlife Federation • UN Year of the Bat Lubee Bat Conservancy • Virginia Department of Conservation & Resources National Cave and Karst Resources Institute • Prince William County Public Schools

Check out the resource web site at: http://BatsLIVE.pwnet.org
For more information: 800-609-2680



National Environmental Education Week



April 15-21, 2012 Register at EEWeek.org

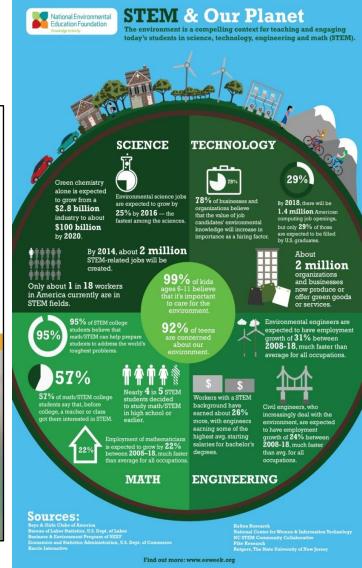
Greening STEM:

The Environment as Inspiration for 21st Century Learning

Benefits of registration include:

- Free educator webinar on integrating STEM and environmental education
 - Planning toolkits on popular environmental topics
 - Discounts, giveaways and special offers







10 Ways to Participate in EE Week

- 1. Incorporate environmental themes into daily lesson plans.
- 2. Help students identify and investigate their watershed.
- watershed.

 3. Use GPS technology to enable students to map and inventory invasive plant species.
- 4. Set up a nature scavenger hunt on your school grounds
- Organize a field trip to a local aquarium or zoo.
- 6. Partner with a business or community group to
- host a clean-up or water quality monitoring event.
 7. Construct a wildlife habitat, schoolyard garden or outdoor classroom on your campus.
- 8. Help students launch a school recycling campaign.
- 9. Encourage students to research and propose ways to green their school building with water and energy conservation technology.
- 10. Help students develop a service-learning project around improving the environment in their community.





National Environmental Education Week (EE Week), the nation's largest environmental education event held each year the week before Earth Day, inspires environmental learning and stewardship among K-12 students. EE Week connects educators with environmental resources to promote K-12 students' understanding of the environment. EE Week is a program of the National Environmental Education Foundation.

- Spread the Word About EE Week
- Promotional Toolkit
- Subscribe to EE Week News

Enter Email Address

Subscribe

Resources

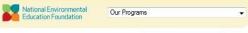
Success Stories

Curricula Library

Nature Center Map

Photo Blog Contest





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Environmental Education Curricula Library

Using environmental topics in the classroom provides an opportunity for students to learn math, science, social studies, language arts and more while exploring interesting issues and sharpening critical thinking skills. The curricula listed in EE Week's Curricula Library are correlated to state, national or NAAEE education standards and have been evaluated for their quality and objectivity. Click on a topic below to view lesson plans.

Air Quality

Amphibians and Reptiles

Birds

Climate Change

» Access the EE Week Carbon Footprint Calculator

Endangered Species

Energy

Environmental Health

Forests and Trees





Our Programs



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Water Resources

Visit the <u>Curricula Library</u> for lesson plans on water and the <u>Water Quality Testing</u> page for resources on conducting water quality tests with your students.

National Environmental Education Foundation

Bay Backpack

Bay Backpack is an online resource for teachers and environmental educators to engage students in hands-on learning about the Chesapeake Bay and its local waterways. The site also houses resources on forests, farming, development and many other environmental topics that affect the Bay, Bay Backpack resources include books, multimedia tools, curriculum guides and individual lesson plans. In addition, visitors can search for professional development and funding opportunities on the Web site. The goal of Bay Backpack is to provide educators with the necessary resources to give their students a Meaningful Watershed Educational Experience (MWEE) — extensive projects that allow students to gain a deep understanding of environmental issues in the Chesapeake Bay and its local streams and rivers.

California Center for the Book

The California Center for the Book, in partnership with the Water Education Foundation, supplies resources to help public libraries host programming about water. Resources are available online and include a Water Issues Guide, a Water Book List, web resources, and more.

Climate Change and Water: Perspectives from the Forest Service

Climate Change and Water. Perspectives from the Forest Service is a summary of a forthcoming report by the Forest Service and U.S. Department of Agriculture which will detail the likely impacts of climate change on the Nation's forested watersheds and highlight the importance of managing forests to provide clean, abundant water.





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EE Week Educator Webinars

The mission of National Environmental Education Week (EE Week) is to connect educators with environmental resources to promote K-12 students' understanding of the environment. One way that we support educators is by providing professional development opportunities, including webinars.

Learn more about our webinars by following the links below.

Upcoming Webinars

» EPA Environmental Education in Action webinars - the EPA's Office of Environmental Education (OEE) will host three webinars for educators during EE Week 2012. The webinars will kick off a new initiative called Environmental Education in Action that will showcase environmental education programs and resources. The webinar Greening STEM: Environmental Resources and Tools for Inspiring 21st Century Learning on April 19 at 4:00 p.m. EDT will showcase EE Week and other NEEF programs. Register for the webinar.

Webinar Archive

- » Field Investigations and STEM, live broadcast March 28, 2012
- » Technology Goes Wild: New Tools for Connecting Classrooms with Nature, live by
- » Teaching Ocean Connections: Watersheds to Reefs, live broadcast March 30, 201
- » <u>Teaching About the Gulf Oil Spill</u>, live broadcast February 23, 2011
- » Teaching the Water-Energy Connection, live broadcast March 31, 2010

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More About EE Week

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Register for EE Week 2012

Join a national network of educators and

EE Week Educator Webinar: Field Investigations and STEM

Original broadcast on March 28, 2012

Back to all webinars

On March 28, 2012, EE Week partnered with the <u>Association of Fish</u>
<u>& Wildlife Agencies</u> (AFWA) and the <u>Pacific Education Institute</u>
(PEI) to explore how the schoolyard or local public land can provide students with the opportunity to be scientists using the skills and knowledge of inquiry to collect real-world data.

Webinar participants had the opportunity to hear from Margaret Tudor and Pat Otto at PEI about information and tools educators can use to engage students in STEM learning outside, utilizing nature as a laboratory, by planning, conducting, and evaluating a field investigation.

PEI provides professional development for school districts to get teachers and students in the field doing real-world science.

Recently, PEI worked with AFWA to provide guides on best practices in conservation education for the AFWA Conservation Education Toolkit. <u>Download the Field Investigations guide</u>.

Individuals who registered for EE Week 2012 and participatef in this and/or our March 14 webinar - Technology Goes Wild - have been entered into a drawing to win a <u>Samsung Galaxy Tab 10.1 16 GB.*</u>

*No purchase necessary. All registrants eligible for the drawing must be at least 18 years old, residents of the U.S., and meet all other eligibility requirements. Void where prohibited. For the complete Rules see eeweek.org/webinars webinar eeweek.org/webinars webinar eeweek.org/webinars webinar eeweek.org/webinars webinar eeweek.org/webinars <a href="mailto:eeweek.or

Webinar Archive

The entire webinar (1 hour 10 minutes) is available for streaming. Both audio and visual of the live broadcast are available here. Materials referenced during the webinar may be downloaded from the links below. You will need <u>Adobe Reader</u> to view the PDF files.

- » Watch the webinar streaming please allow a few minutes for buffering
- » Q&A Sheet

Webinar Materials

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- » Water
- » Water-Energy Connection

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- » Service-Learning

Register for EE Week 2012

Join a national network of educators and organizations dedicated to increasing the environmental knowledge of K-12 students.

Register Now

Subscribe Now

Subscribe to our monthly EE Week newsletter

Enter Email Address



Environmental Education Success Stories

Educators around the country are engaging students in interesting and exciting activities to promote understanding of the environment. These are just a few of their stories. We'd love to hear your story. Send it to us at Eeweek@neefusa.org.

Calvert County Public Schools, Prince Frederick, Md.

Seventh grade students Calvert County Public Schools are collecting data on reptile and amphibian distribution as part of the Maryland Amphibian and Reptile Atlas (MARA) project. Continue reading...



The Aldo Leopold Nature Center, Monona, Wis.

The Aldo Leopold Nature Center connects children, their families and teachers with the wonders of the natural world through hands-on, guided experiences.

Continue reading...



The Peggy Notebaert Museum, Chicago, III.

The Peggy Notebaert Museum educates the general public on local Great Lakes ecosystems and their connection to the ocean by hosting a workshop to celebreate EE Week 2011's Ocean Connections. Continue reading...



et Involved

Montgomery School, Chester Springs, Pa.

David Kline, a 4th-6th grade science teacher at Montgomery School, is engaging students in his environmental education curriculum, Programs for Environmental Awareness and Sustainability (PEAS). Continue reading...



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Our Programs

Maryland Students Use Science and Technology to Inventory Local Frogs

National Environmental

Education Foundation

Calvert County Public Schools located in southern Maryland is launching a new seventh grade STEM initiative in each of the middle schools. Students will be collecting data on reptile and amphibian distribution as a part of the Maryland Amphibian and Reptile Atlas (MARA) project. Students will use tools like Google Earth to identify the specific location of the animals that they observe and will collect recordings of frog and toad vocalizations using the SM2 Automated Recording Unit (more commonly known as a FrogLogger) manufactured by Wildlife Acoustics.

The loggers will collect one minute sound samples throughout the night and are available as .wav files for student analysis and to share with MARA scientists for species verification. Student data will be used to help document the distribution of reptiles and

amphibians across the state. Additionally, students will contribute to the Calvert FrogBlog, a site that will include photos, video clips, news stories, and other relevant information. Project teachers have already uploaded some initial observations to www.calvertfrogblog.blogspot.com.

Listen to an audio recording of Spring Peepers.



EE Week Photo Blog Contest

Opportunity for schools and organizations to share their stories for the chance to win prizes.

Entries are judged on the quality of the photo and blog text, visual appeal and the student learning that took place as a result of the environmental education efforts depicted in the blog.

First, second and third place winners will receive a digital camera and be featured on EEWeek.org.

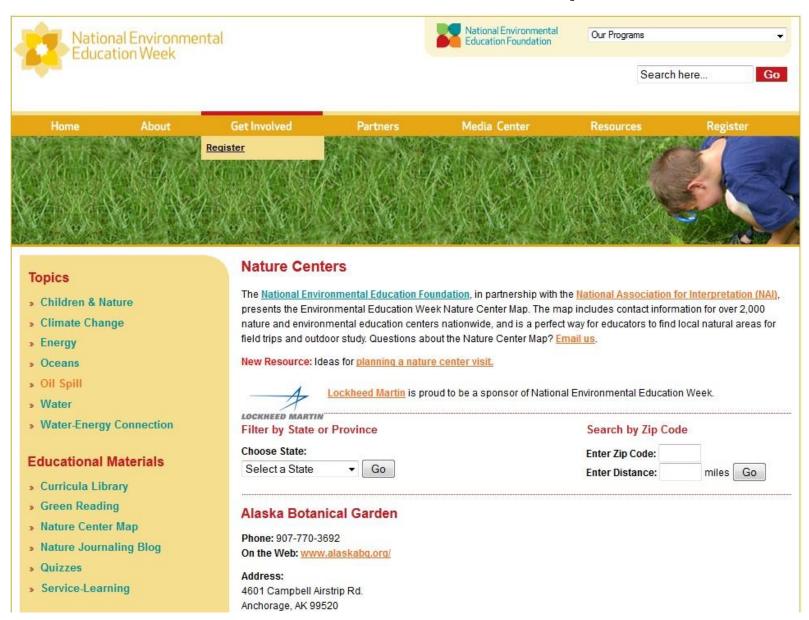
Contest runs through May 31





www.eeweek.org/photoblog

Nature Center Map





Greening STEM: The Environment as Inspiration for 21st Century Learning



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Greening STEM: The Environment as Inspiration for 21st Century Learning

National Environmental Education Week

April 15-21, 2012

Increasing STEM (Science, Technology, Engineering and Math) knowledge and expanding STEM education and career opportunities for students is a national priority. Student achievement in STEM is key to fostering a new wave of innovators who can creatively address complex 21st century challenges.

The environment is a compelling context for teaching STEM as it provides teachers with a diverse range of real-world challenges that engage students in meaningful hands-on opportunities to apply and reinforce STEM concepts across multiple subject areas.

Recognizing the role of the environment as a portal for STEM learning, EE Week's 2012 theme is **Greening STEM: The**Environment as Inspiration for 21st Century Learning.



Greening STEM Resources

- » EE Week Greening STEM Planning Toolkits
- » Webinar: Technology Goes Wild: New Tools for Connecting Classrooms with Nature, March 14 at 7:00 p.m. EDT
- » Webinar: Field Investigations and STEM, March 28 at 7:00 p.m. EDT
- » <u>Planet Connect Get Green Video Contest: Green Your City</u>, student-created videos explaining ways they can green their city or town using STEM. <u>View the winning videos</u>.
- » <u>Earth Gauge Meterologist Videos</u> meteorologists from across the country explain the role that STEM plays in their work.

Greening STEM Planning Toolkits

- » Energy
- » Oceans
- » Oil Spill
- » Water
- » Water-Energy Connection

Educational Materials

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Register Now

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Featured Toolkit: Schoolyard Bioblitz Planning Toolkit

On March 14, EE Week partnered with <u>National Geographic Education</u> and <u>Project Noah</u> to offer educators <u>Technology Goes Wild: New Tools for Connecting Classrooms with Nature</u>. In the webinar, participants learned how to engage students in STEM learning by taking technology outside and conducting a bioblitz in the schoolyard or local nature area.

EE Week and National Geographic Education continued to work together to develop a toolkit, equipping educators with activities and resources to conduct a schoolyard or local bioblitz with their students.



Toolkit Key

Materials in the toolkits are labeled with the STEM components

and teaching strategies they include.

Gardens & Schoolyards



Energy Efficiency



Geography Connections



Water Resources



STEM Components:

Sci—Science

Tech-Technology

Enq-Engineering

Math-Mathematics

Other Components:

St-Service-Learning

PBL-Project-Based Learning

CS-Citizen Science

Climate & Weather



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Register for EE Week 2012

Join a national network of educators and organizations dedicated to increasing the environmental knowledge of K-12 students

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EE Week 2012 Greening STEM Planning Toolkit:

Gardens & Schoolyards

Back to all toolkits

There are many educational benefits to school gardens and green schoolyards. These spaces serve as living laboratories that provide a real-world context for lessons across subject areas. They also engage students in hands-on, project-based learning activities.

The opportunities to learn and apply STEM (Science, Technology, Engineering and Math) concepts in school gardens and green schoolyards abound. From analyzing soil samples, plotting plant growth and graphing rainfall to designing greenhouses, STEM activities in the schoolyard garden or habitat empower students of all grade levels to improve their community and take pride in their school environment.

Below, we outline projects and activities organized by grade-level as well as resources that engage students in STEM learning in the school garden or schoolvard.



Students work on their monarch butterfly waystation at Brier Creek Elementary School in Raleigh, N.C.



Featured Partner

KidsGardening offers resources around plant-based education and school gardens, as well as an array of awards programs and products that engage kids in active learning and exploration in the garden.

Toolkit Menu

- » Projects & Activities: All Grades | K-4 | 5-8 | 9-12
- » Resources: Websites | Books | Games & Apps

Projects & Activities

All Grades

Growing UP (and around, and down...)

Sci. Math

In this project from KidsGardening.org, students build garden structures, giving them a chance to track and experiment with plant tropisms (responses to various environmental stimuli). The three types of garden structures featured in the activity can be adapted to fit budget and climate and include ideas for connecting the project to the curricular focus of the classroom.

Building Soil Nature's Way

Sci. Math

This classroom project is an exploration of building life-giving humus. Students explore soil health by building a lasagna garden. By marking off a garden area and adding layer after layer of compost, organic matter and high-nitrogen materials students explore the process of decomposition and learn the importance of nutrient-rich soil as a base for a successful garden.

EE Week 2012 Educator Webinars



Announcing a Free EE Week Educator Webinar:

Technology Goes Wild:

New Tools for Connecting Classrooms with Nature

Wednesday, March 14, 2012 at 7:00 p.m. EST

National Environmental Education Week (EE Week) is partnering with <u>National Geographic Education</u> and <u>Project Noah</u> to bring educators the information and tools they need to take technology outside, engaging students in STEM (science, technology, engineering and math) learning in their own schoolyard or local public land.

Webinar participants will learn about National Geographic Education resources, including how to conduct a local BioBlitz—an activity where students and teachers work together to take a snapshot of an area's biodiversity.

Project Noah, a rapidly growing global citizen science effort, will showcase an innovative new tool that can help educators inspire students to explore and document wildlife using easily accessible technology.

REGISTER for an EE WEEK WEBINAR today and become eligible to win a SAMSUNG GALAXY TAB 10.1 16GB.*

*No purchase necessary. All registrants eligible for the drawing must be at least 18 years old, residents of the U.S., and meet all other eligibility requirements. Void where prohibited. For the complete rules see <u>eeweek.org/webinars/webinar drawing rules</u>.











Announcing a Free EE Week Educator Webinar:

Field Investigations and STEM

Wednesday, March 28, 2012 at 7:00 p.m. EDT

National Environmental Education Week (EE Week) is partnering with the <u>Association of Fish & Wildlife Agencies</u> (AFWA) and the <u>Pacific Education Institute</u> (PEI) to explore how the schoolyard or local public land can provide students with the opportunity to be scientists using the skills and knowledge of inquiry to collect real-world data.

Margaret Tudor and Pat Otto from PEI will provide teachers with information and tools to engage students in STEM learning outside, utilizing nature as a laboratory, by planning, conducting, and evaluating a field investigation.

PEI provides professional development for school districts to get teachers and students in the field doing real-world science. Recently, PEI worked with AFWA to provide guides on best practices in conservation education for the AFWA Conservation Education Toolkit.

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STEM & Our Planet

The environment is a compelling context for teaching and engaging today's students in science, technology, engineering and math (STEM).



Green chemistry alone is expected to grow from a \$2.8 billion industry to about \$100 billion by 2020.



Environmental science jobs are expected to grow by 25% by 2016—the fastest among the sciences.





78% of businesses and organizations believe that the value of job candidates' environmental knowledge will increase in importance as a hiring factor.

29%

By 2018, there will be 1.4 million American computing job openings, but only 29% of those are expected to be filled by U.S. graduates.

By 2014, about 2 million STEM-related jobs will be

created.

Only about 1 in 18 workers in America currently are in STEM fields.



95% of STEM college students believe that math/STEM can help prepare students to address the world's touchest problems. 99% of kids ages 6-11 believe that it's important to care for the environment.

92% of teens are concerned about our environment.



About

2 million
organizations
and businesses
now produce or
offer green goods
or services.

Environmental engineers are expected to have employment growth of 31% between 2008-18, much faster than average for all occupations.



57%

57% of math/STEM college students say that, before college, a teacher or class got them interested in STEM.



students decided to study math/STEM in high school or earlier.



Employment of mathematicians is expected to grow by 22% between 2008–18, much faster than average for all occupations.

\$:

Workers with a STEM background have earned about 26% more, with engineers earning some of the highest avg. starting salaries for bachelor's degrees.



Civil engineers, who increasingly deal with the environment, are expected to have employment growth of 24% between 2008-18, much faster than avg. for all occupations.

MATH

ENGINEERING

Sources:

Boys & Girls Clubs of America Bureau of labor Statistics, U.S. Dopt, of Labor Business & Eavivenment Program of NEIF Economics and Statistics Administration, U.S. Dept, of Commerce Harris Interactive

Kelton Research National Center for Women & Information Technology NC STEM Community Collaborative Pike Research

Find out more: www.eeweek.org



Green STEM Innovators











http://www.eeweek.org/greening_stem/innovators





Weather Connections to STEM



As part of National Environmental Education Week's 2012 theme, Greening STEM: The Environment as Inspiration for 21st Century Learning, broadcast meteorologists from across the United States that participate in Earth Gauge will contribute videos explaining the role STEM plays in their day-to-day work.



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